Bulletin of the Academy of Sciences of the USSR Division of Chemical Science 1977 vol.26 N1, pages 86-90

Kerr constants and spatial structures of certain aryl vinyl compounds of sulfur

Mannafov T., Vul'fson S., Arkhireeva I., Vereshchagin A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. The aryl group is rotated by an angle of 65-75° with respect to the C-S-C plane in the aryl vinyl sulfones and their β-chloroderivatives containing H, CH3, CL, and Br substituents; in nitrophenyl vinyl sulfone, the rotation is 4-28°. 2. The unsaturated group inthe aryl vinyl sulfones, aryl trans-β-chlorovinyl sulfones, and the aryl trans-β-chlorovinyl sulfides have s-trans conformation, or something close thereto, displacement out of the C-S-C plane being as high as 40°. © 1977 Plenum Publishing CorporationPlenum Publishing Corporation.

http://dx.doi.org/10.1007/BF00921499